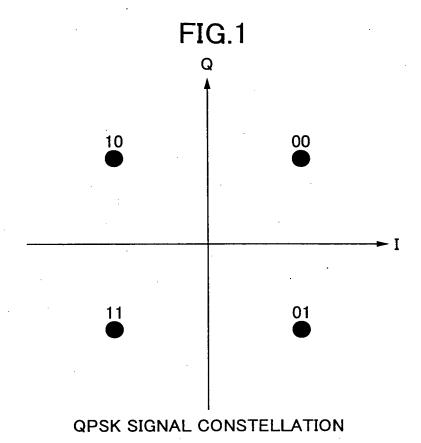
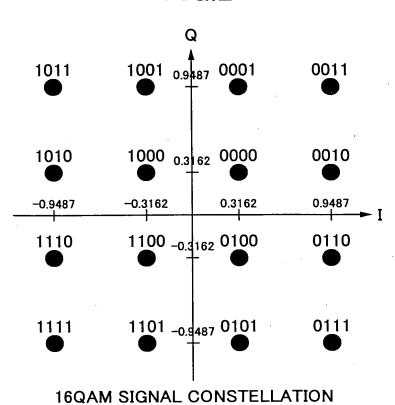
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FIG.2



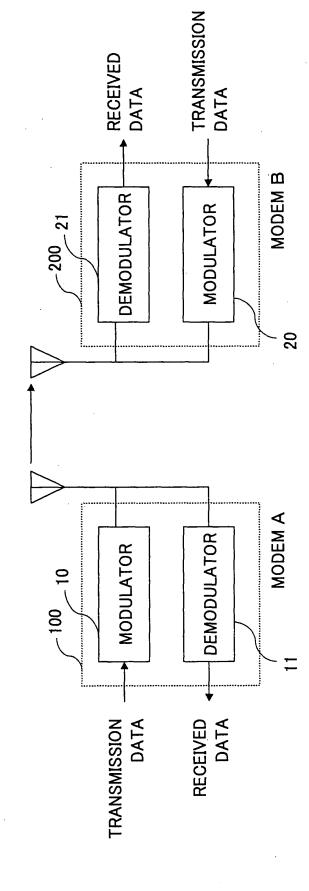
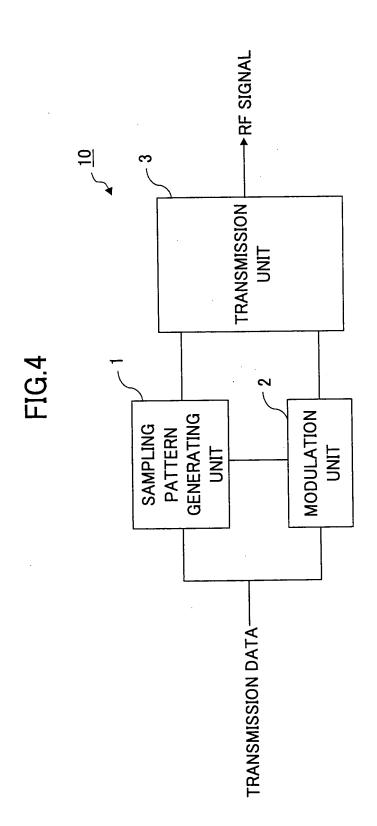
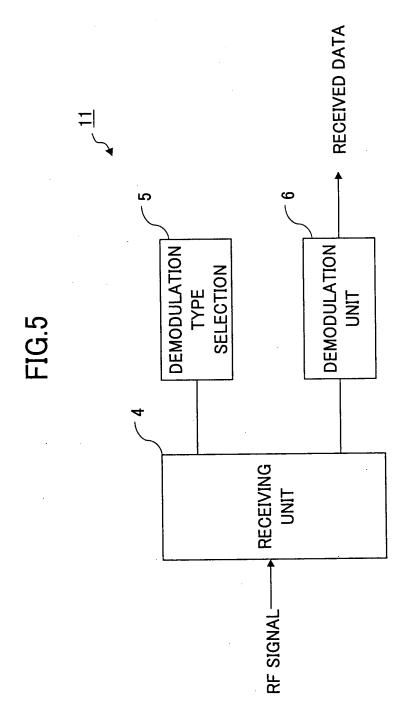


FIG 3





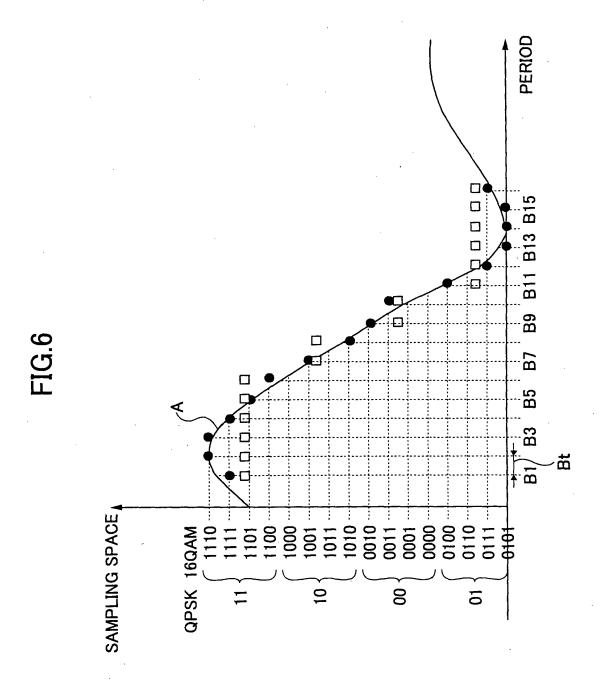


FIG.7

CONSTELLATION POINT	MODULATION SIGNAL
0000	0.3162+0.3162i
0001	0.3162+0.9487i
0011	0.9487+0.9487i
0010	0.9487+0.3162i
0110	0.9487-0.3162i
0100	0.3162-0.3162i
0101	0.3162-0.9487
0111	0.9487-0.9487i
1111	-0.9487-0.9487i
1110	-0.9487-0.3162i
1100	-0.3162-0.3162i
1101	-0.3162-0.9487i
1001	-0.3162+0.9487i
1000	-0.3162+0.3162i
1010	-0.9487+0.3162i
1011	-0.9487+0.9487i

FIG.8

SAMPLED DATA	CONSTELLATION POINT	MODULATION SIGNAL
B1	1111	-0.9487-0.9487i
B2	1110	-0.9487-0.3162i
B3	1110	-0.9487-0.3162i
B4	1111	-0.9487-0.9487i
B5	1101	-0.3162-0.9487i
В6	1100	-0.3162-0.3162i
B7	1001	-0.3162+0.9487i
B8	1010	-0.9487+0.3162i
В9	0010	0.9487+0.3162i
B10	0011	0.9487+0.9487i
B11	0100	0.3162-0.3162i
B12	0111	0.9487-0.9487i
B13	0101	0.3162-0.9487
B14	0101	0.3162-0.9487
B15	0101	0.3162-0.9487
B16	0111	0.9487-0.9487i

FIG.9

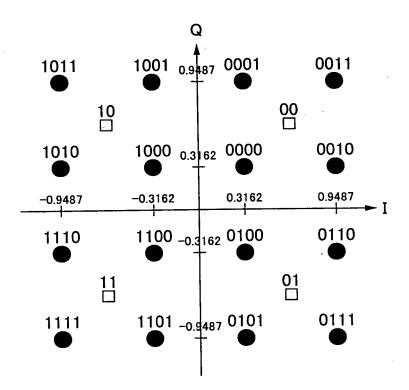


FIG.10

SAMPLED DATA	QPSK DEMODULATION RESULT
B1	. 11
B2	11
В3	11
B4	11
B5	11
В6	11
B7	10
B8	10
В9	00
B10	00
B11	01
B12	01
B13	01
B14	01
B15	01
B16	01